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### **ANTRAIL**

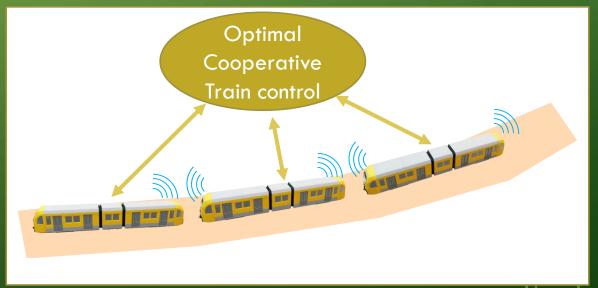
### ANT-like RAIL Traffic operations to maximise network efficiency

In nature ants seem to know the secret of making super efficient, high-capacity transport networks using cooperative movements...

# Research question:

Can Virtual Coupling and optimal train control unleash the same potential for railways?





## **ANTRAIL: Project Description**

Contributing to S2R IP2:

TD2.8 - VCTS

TD2.9 - Traffic management evolution

Expands work in:

\$2R-OC-IP2-01-2020 of the AWP

### Concept definition and verification

#### WP1

Principles for cooperative VC train operations

#### WP2

Formal Verification and functional specs

### Mathematical formalisation

#### WP3

VC enabled rail simulation environment

#### WP4

Cooperative train control algorithms

# Testing platform and evaluation

#### WP5

ANTRAIL operation platform integration

#### WP6

Performance analysis and assessment

# ANTRAIL: Current consortium & Partner profile

### Partners:

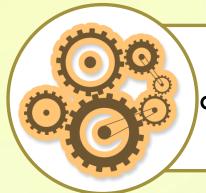




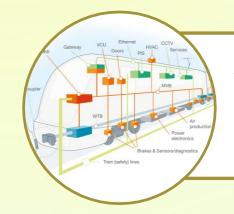




# Who we are looking for:



SMEs with expertise in SW demonstrators for the railways to showcase concepts in WP5



SMEs with core business in train management control systems to support WP1 and WP3.







Can you help us moving to the next generation of railways?